Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (original) A galvanic probe comprising

a sensor electrode having an exposed surface comprising (1) a first material selected from the group consisting of noble metals, antimony, and bismuth, and (2) optionally, an oxide or hydroxide of the first material, and

a reference electrode spaced apart from the sensor electrode and having an exposed surface comprising (1) a second material selected from the group consisting of zinc and magnesium, and (2) optionally, an oxide or hydroxide of the second material.

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54. (original). A device for controlling the pH of a fluid in a vessel to a desired pH level, comprising:

(a) a sensor electrode having an exposed surface comprising (1) a first material selected from the group consisting of antimony, and bismuth, and (2) optionally, an oxide or hydroxide of the first material;

(b) a reference electrode spaced apart from the sensor electrode and having an exposed surface comprising (1) a second material selected from the group consisting of zinc and magnesium, and (2) optionally, an oxide or hydroxide of the second material; and

(c) a circuit;

arranged such that said electrodes generate a signal when the electrodes are in contact with a fluid having a pH such that the electrodes are in electrochemical communication with each other, the signal being input to and processed by said circuit.

55. (cancelled).

56. (cancelled).

57. (original). A device for controlling the pH of a fluid in a vessel to a desired ORP level, comprising:

(a) a sensor electrode having an exposed surface comprising (1) a noble metal, and (2) optionally, an oxide or hydroxide of the first material;

(b) a reference electrode spaced apart from the sensor electrode and having an exposed surface comprising (1) a second material selected from the group consisting of zinc and magnesium, and (2) optionally, an oxide or hydroxide of the second material; and

(c) a circuit;

arranged such that said electrodes generate a signal when the electrodes are in contact with a fluid having an ORP such that the electrodes are in electrochemical communication with each other, the signal being input to and processed by said circuit.

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64. (cancelled).

65. (original). A galvanic cell comprising an electrolyte in contact with:

a) a sensor electrode having an exposed surface comprising (1) a first material selected from the group consisting of noble metals, antimony, and bismuth, and (2) optionally, an oxide or hydroxide of the first material; and

b) a reference electrode spaced apart from the sensor electrode and having an exposed surface comprising (1) a second material selected from the group consisting of zinc and magnesium, and (2) optionally, an oxide or hydroxide of the second material.

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